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↑SEQ ID NO:3→ ATG GCA CTG AAG TTT GTG AAC AAG AGC AAA 30

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F I I K V F D V V F E T E D C Y V F A Q 50
TTC ATC ATC AAG GTC TTT GAC GTG GTC TTT GAG ACA GAG GAC TGC TAC GTC TTT GCC CAG 150

E Y A P A G D L F D I I P P Q V G L P E 70
GAG TAC GCA CCT GCT GGG GAC CTG TTT GAC ATC ATC CCT CCC CAG GTG GGG CTC CCT GAG 210

D T V K R C V Q Q L G L A L D F M H G R 90
GAC ACG GTG AAG CGC TGT GTG CAG CAG CTG GGC CTG GCG CTG GAC TTC ATG CAC GGG CGG 270

Q L V H R D I K P E N V L L F D R E C R 110
CAG CTG GTG CAC CGC GAC ATC AAG CCC GAG AAC GTG CTG CTG TTC GAC CGC GAG TGC CGC 330

R V K L A D F G M T R R V G C R V K R V 130
CGC GTA AAG CTG GCC GAC TTC GGC ATG ACG CGC CGC GTG GGC TGC CGC GTC AAG CGC GTG 390

S G T I P Y T A P E V C Q A G R A D G L 150
AGC GGC ACC ATC CCT TAC ACG GCG CCT GAG GTG TGC CAG GCG GGC CGC GCC GAC GGG CTG 450

A V D T G V D V W A F G V L I F C V L T 170
GCG GTG GAC ACG GGC GTG GAC GTG TGG GCC TTC GGC GTG CTC ATC TTC TGC GTG CTC ACC 510

G N F P W E A A S G A D A F F E E F V R 190
GGC AAC TTC CCG TGG GAG GCG GCG TCG GGC GCC GAC GCC TTC TTC GAG GAG TTC GTG CGC 570

W Q R G R L P G L P S Q W R R F T E P A 210
TGG CAG CGG GGC CGC CTG CCG GGG CTG CCT TCG CAG TGG CGC CGC TTC ACC GAG CCC GCG 630

L R M F Q R L L A L E P E R R G P A K E 230
CTG CGC ATG TTC CAG CGC TTA CTG GCC CTG GAG CCC GAG CGC CGC GGC CCA GCC AAG GAG 690

V F R F L K H E L T S E L R R R P S H R 250
GTG TTC CGC TTC CTC AAG CAC GAG CTC ACG TCC GAG CTG CGC CGC CGG CCC TCG CAC CGC 750

A R K P P G D R P P A A G P L R L E A P 270
GCG CGC AAG CCC CCC GGG GAC CGC CCG CCC GCC GCC GGG CCA CTG CGC CTC GAG GCG CCT 810

G P L K R T V L T E S G S G S R P A P P 290
GGG CCG CTC AAG CGG ACG GTG CTG ACC GAG AGC GGC AGC GGC TCC CGG CCC GCG CCC CCC 870

A V G S V P L P V P V P V P V P V P 310
GCC GTC GGG TCG GTG CCC TTG CCC GTG CCG GTG CCG GTG CCA GTG CCC GTG CCG GTG CCT 930

FIG 1A

V P E P G L A P Q G P P G R T D G R A D 330
GTG CCC GAG CCC GGC CTA GCT CCC CAG GGG CCC CCC GGC CGG ACC GAC GGC CGC GCG GAC 990

K S K G Q V V L A T A I E I C V * 347
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←SEQ ID NO:3↑
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FIG 1B

0916390.02201

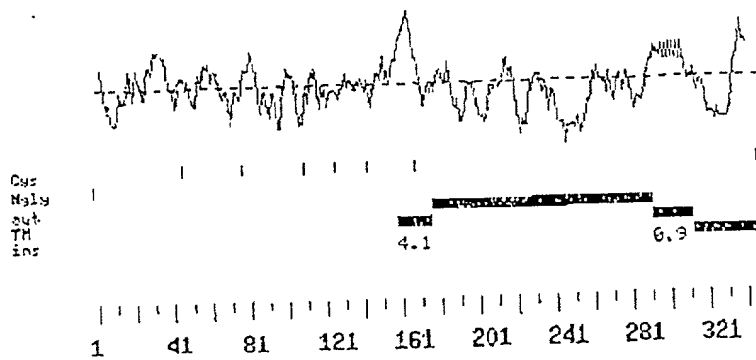


Fig. 2

*->vAvKilkkesls....lrEiqilkrIs.HpNivrlIgvfedtdhhly SEQ ID NO:7
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 32374 1 MALKFVNKSKTKlknfLREVSITNSLSsSPFIKVFVDVVFETEDCYV 47

 lvmEymegGdLfdyIrrngplsekeakkialQilrGleYlHsngivHRDL
 + +Ey++ GdLfd++ + l+e+ +k+++ Q+ +l+++H++ vHRD+
 32374 48 FAQEYAPAGDLFDIIPPQVGLPEDTVKRCVQQLGLALDFMHGRQLVHRDI 97

 KpeNIllden..gtvKiaDFGLArll.eklTtfvGTpwYmmAPEvileg.
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 32374 98 KPENVLLFDRecRRVKLADFGMTRRVgCRVKRVSGTIPYT-APEV-CQAg 145

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 + ++ ++ vDvW++Gv+++ +ltg
 32374 146 radgLAVDTGVDVWAFGVLIFCVLTG----- 171

 vlklPfsdelpktridpleelfrikkr.....rlplpsncSeelkdL
 P++ + ++ ++ f+ r +++++ +++++ +++++ e+++
 32374 172 --NFPWEAA-----SGADAFFEFVRwqrgrlpgLPSQWRRFTEPALRM 213

 lkKcLnkDPskRpGsatakei<-*
 ++L++ P++R ake+
 32374 214 FQRLLALEPERRG---PAKEV 231

Fig. 3

Query: 226 GPAKEVFRFLKHELTSELRRRPSHRARKPPGDRPPAAGPLRLEAPGPLKRTVLTESGSGS 285
 GPAKEVFRFLKHELTSELRRRPSHRARKPPGDR P GPLRLEAPGPLKRTVLTESGSGS
 Sbjct: 1 GPAKEVFRFLKHELTSELRRRPSHRARKPPGDRLP--GPLRLEAPGPLKRTVLTESGSGS 58 SEQ ID NO:8

 Query: 286 R 286
 R
 Sbjct: 59 R 59

Fig. 4

Query: 321 PPGRTDGRADKSKGQVVLATAIEICV 346
 PPGRTDGRADKSKGQVVLATAIEICV
 Sbjct: 89 PPGRTDGRADKSKGQVVLATAIEICV 114 SEQ ID NO:9

Fig 5

Query: 166 FCVLTGNFPWEAASGADAFFEFVRWQGRLPGLPSQWRRFTEPALRMFQRLLALEPERR 225
 +C + G FPW+ AS + E+ +W + + P LP ++ F+E AL++F++ L + R
 Sbjct: 3 YC-MKGKFPWQKASIMCKPYWEWEQWLKRKNPALPKFNPFSKALKLFKKSILTPRFKDR 61 SEQ ID NO:10

 Query: 226 GPAKEVFRFL-KHELTSELRR 245
 AK++ + L K +L ++R
 Sbjct: 62 WTAKDMRKCLAKEKLLKSVKR 82

Fig. 6

TO2220 05291660

Query: 4 K F V N K S K T K L K N F L R E V S I T N S L S S S P F I I K V F D V V F E T E D C Y V F A Q E Y A P A G D L F D I I P 63
 K V S K + + L E + + L + + F + I + + + Y + + Y + + + I
 Sbjct: 16 K M V A F S K R E E R I L L E I D L Y K K L E N N E F V I D L M A H I V D D I T H Y L L F D K Y S Q -- N F L E Y I E 73 SEQ ID NO:11

Query: 64 P - Q V G L P E D T V K R C V Q Q L G L -- A L D F M H G R Q L V H R D I K P E N V L L F D R E C R R V K L A D F G 118
 + + G D + K G + A + + + H G + H D I K P N + L + + K + D F G
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Fig. 7

Query: 47 V F A Q E Y A P A G D L F D I I P P Q V G L P E D T V K R C V Q ----- Q L G L A L D F M H ----- G R Q 91
 + A E + P G L D + V + D + + + Q Q + A L + + H G + +
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 L H I N V L + + + R + V K L D F G + G + I Y P E + C A R
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Query: 149 G L A V D T G V D V W A F G V L I F - C V L T G N F P 174
 + D V W F G V I + C + G P
 Sbjct: 292 P H R P E N -- D V W M F G V F I W E C L T L G A Q P 316

Fig. 8

Query: 77 V Q Q L G L A L D F M H G R Q L V H R D I K P E N V L L --- F D R E C R R V K L A D F G M T R --- R V G C R V K 128
 + Q L A + + H + + R D + K + N + L L F D E + + + A D F G + V
 Sbjct: 319 I A Q L L E A C T Y L H K H K V A Q R D M K S D N I L E Y D F D D E I P Q L V V A D F G C A L A C D N W Q V D Y E S D 378 SEQ ID NO:13

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Query: 186 E E F V R W Q R G R L P G L P S Q 202
 + + Q L P L P S +
 Sbjct: 433 - D T A T Y Q E S E L P A L P S R 448

Fig. 9

Query: 68 L P E D T V K R C V Q Q L G L A L D F M H G R Q L V H R D I K P E N V L L F D R -- E C R R V K L A D F G M T R R V G C 125
 L P D + + L A + D F + G + H R D I K P + N + + R R + L D F + G
 Sbjct: 647 L P V D Q L E A Y G D Y L F G A V D F L E G E G I W H R D I K P D N I A V R I R P N R T R E L V L I D F S L A --- G Y 703 SEQ ID NO:14

Query: 126 R V K R V - S G T I P Y T A P E V C Q A G R A D G L A V D T G V D V W A F G V L I F C V L T G N F P - W E A A S G A D A 183
 K + G T Y P V R + D + + A V + + + G P W S
 Sbjct: 704 P A K N T D A G T D G Y L D P F V D V I T R G --- S Y D S H A E R Y A V A V T L H Q M A S G E L P K W G D G S V L P R 760

Query: 184 F F E E F V R W Q R G R L P G L P S Q W R R F T E P A L R --- M F O R L L A L E P E R R G P A K E V F R -- F L K 236
 + W P + + F + P A + R F Q + L + + R P + R + K
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Query: 237 H E L T S E L R R R P S H R A R K P - P G D - R P P A A G 263
 L + S H R R P D P A G
 Sbjct: 814 V F L D A S Q T V P S S H R T R P A A P A D G A A P A E G 842

Fig. 10

09916790-0220

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Query:      30 PFIIVKVDVVFETEDCYVFAQEYAPAGDLFDIIPPQVGLP---EDTVKRCVQQLGLALD 85
              P I + + +V E + C++ QE      G + +      G+P      E+ +      +QQL LD
Sbjct:      71 PGILAIENVSEEDRCFLVTQEND--GPILSLTQYLGIPRKLTEEEIVDIIQQLCSLLD 128  SEQ ID NO:15

Query:      86 FMHGRQLVHRDIKPENVLL-FDRECRRVKLADFQMTRRVGCR-----VKRV 130
              ++H   L H      +V + F      + L D G      + R      +++++
Sbjct:      129 YVHSEGLAHGQWNLHSHVHIHFLNGVPNIYLPDLGFASLIRERMFDFGMQDEENRESIEKI 188

Query:      131 SGTIPYTAPEVCQAGRADGLAVDTGVDVWAFGVLIFCVLTGNFPWEAASGADAFFEFV 189
              + + PE Q      +G DT      +AFG + + +L G FPW      F +F+
Sbjct:      189 RDRLLFHTPEGKQT---NGRETDT---YAFGAITYYLLFGFFPWGIFPKPSKCFPDFI 240

```

Fig. 11

Query:	29	SPFIIKVFDVVFETEDC-YVFAQEQYAPAGDLFDIIPPQVGLPEDTVKRCVQQQLGLALDFM	87	
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Sbjct:	82	SPHVLPPVRDLIDEGEWLSLVF--EPRRTITLRELLSAGPVSPPE--LLQPLTTALFEGLSAA	138	SEQ ID NO:16
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		H L+H I PE V FD + +R LA+FG+ RR ++ P Y APE+ G		
Sbjct:	139	HQGALLHTQISPEAVW-FDTQ-KRPLLAIEFGLARRTAQELRDHWPDPYAAPELLSGG-	195	
Query:	147	ADGLAVDTGVDVWAFGVLIFCVLTGNFPWEAASGADAFEEFVRWQGRRLP----GLPSQ	202	
		D++A + EAA+G A R Q RLP G+P Q		
Sbjct:	196	----PYTPQTDLYALAAATLL-----EAATGT-ALSPVSARQQGVRLPSWPAGIPPQ	241	
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		E L++ + A+ A EV L+ + T + + A P PPA		
Sbjct:	242	VAHALESCLQLDPAVRAVS-----AAEVLEELRRAQPTQAILSQQEPPAPPPSPVSPPA	295	
Query:	262	A 262		
		A		
Sbjct:	296	A 296		

09016700.072701

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 CCTGAAATGCAGCGTCTGGTGCACTAAGCCGTAGCGGCAGCAGCAGCCACAGCGACAGCGCTGGGGCCCTGTGTAGAAG
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 R F Q I L K T I T H P R L C Q Y V D I S 60
 CGC TTT CAA ATC CTT AAA ACC ATC ACC CAT CCC AGA CTC TGC CAG TAT GTG GAT ATT TCT 180
 R G K H E R L V V V A E H C E R S L E D 80
 AGG GGA AAG CAT GAA CGA CTA GTG GTC GTG GCT GAA CAT TGT GAA CGT AGT CTG GAA GAC 240
 L L R E R K P V S C S T V L C I A F E V 100
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 L Q G L Q Y M N K H G I V H R A L S P H 120
 CTT CAG GGC TTG CAG TAT ATG AAC AAA CAT GGT ATA GTA CAC AGG GCA TTG TCT CCT CAT 360
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 T A H G D D V D F P I G Y P S Y L A P E 160
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 V I A Q G I F K T T D H M P S K K P L P 180
 GTA ATT GCA CAG GGA ATT TTC AAA ACC ACT GAT CAC ATG CCA AGT AAA AAA CCA TTG CCT 540
 S G P K S D V W S L G I I L F E L C V G 200
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 R K L F Q S L D I S E R L K F L L T L D 220
 AGA AAA TTA TTT CAG AGC TTG GAT ATT TCT GAA AGA CTA AAA TTT TTG CTT ACT TTG GAT 660
 C V D D T L I V L A E E H G C L D I I K 240
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 E L P E T V I D L L N K C L T F H P S K 260
 GAG CTT CCT GAA ACT GTG ATA GAT CTT TTG AAT AAG TGC CTT ACC TTC CAT CCT TCT AAG 780

Fig. 13A

R	P	T	P	D	E	L	M	K	D	K	V	F	S	E	V	S	P	L	Y	280
AGG	CCA	ACC	CCA	GAT	GAA	TTA	ATG	AAG	GAC	AAA	GTA	TTC	AGT	GAG	GTA	TCA	CCT	TTA	TAT	840
T	P	F	T	K	P	A	S	L	F	S	S	S	L	R	C	A	D	L	T	300
ACC	CCC	TTT	ACC	AAA	CCT	GCC	AGT	CTG	TTT	TCA	TCT	TCT	CTG	AGA	TGT	GCT	GAT	TTA	ACT	900
L	P	E	D	I	S	Q	L	C	K	D	I	N	N	D	Y	L	A	E	R	320
CTG	CCT	GAG	GAT	ATC	AGT	CAG	TTG	TGT	AAA	GAT	ATA	AAT	AAT	GAT	TAC	CTG	GCA	GAA	AGA	960
S	I	E	E	V	Y	Y	L	W	C	L	A	G	G	D	L	E	K	E	L	340
TCT	ATT	GAA	GAA	GTG	TAT	TAC	CTT	TGG	TGT	TTG	GCT	GGA	GGT	GAC	TTG	GAG	AAA	GAG	CTT	1020
V	N	K	E	I	I	R	S	K	P	P	I	C	T	L	P	N	F	L	F	360
GTC	AAC	AAG	GAA	ATC	ATT	CGA	TCC	AAA	CCA	CCT	ATC	TGC	ACA	CTC	CCC	AAT	TTT	CTC	TTT	1080
E	D	G	E	S	F	G	Q	G	R	D	R	S	S	L	L	D	D	T	T	380
GAG	GAT	GGT	GAA	AGC	TTT	GGA	CAA	GGT	CGA	GAT	AGA	AGC	TCG	CTT	TTA	GAT	GAT	ACC	ACT	1140
V	T	L	S	L	C	Q	L	R	N	R	L	K	D	V	G	G	E	A	F	400
GTG	ACA	TTG	TCG	TTA	TGC	CAG	CTA	AGA	AAT	AGA	TTG	AAA	GAT	GTT	GGT	GGA	GAA	GCA	TTT	1200
Y	P	L	L	E	D	D	Q	S	N	L	P	H	S	N	S	N	N	E	L	420
TAC	CCA	TTA	CTT	GAA	GAT	GAC	CAG	TCT	AAT	TTA	CCT	CAT	TCA	AAC	AGC	AAT	AAT	GAG	TTG	1260
S	A	A	A	T	L	P	L	I	I	R	E	K	D	T	E	Y	Q	L	N	440
TCT	GCA	GCT	GCC	ACG	CTC	CCT	TTA	ATC	ATC	AGA	GAG	AAG	GAT	ACA	GAG	TAC	CAA	CTA	AAT	1320
R	I	I	L	F	D	R	L	L	K	A	Y	P	Y	K	K	N	Q	I	W	460
AGA	ATT	ATT	CTC	TTC	GAC	AGG	CTG	CTA	AAG	GCT	TAT	CCA	TAT	AAA	AAA	AAC	CAA	ATC	TGG	1380
K	E	A	R	V	D	I	P	P	L	M	R	G	L	T	W	A	A	L	L	480
AAA	GAA	GCA	AGA	GTT	GAC	ATT	CCT	CCT	CTT	ATG	AGA	GGT	TTA	ACC	TGG	GCT	GCT	CTT	CTG	1440
G	V	E	G	A	I	H	A	K	Y	D	A	I	D	K	D	T	P	I	P	500
GGA	GTT	GAG	GGA	GCT	ATT	CAT	GCC	AAG	TAC	GAT	GCA	ATT	GAT	AAA	GAC	ACT	CCA	ATT	CCT	1500
T	D	R	Q	I	E	V	D	I	P	R	C	H	Q	Y	D	E	L	L	S	520
ACA	GAT	AGA	CAA	ATT	GAA	GTG	GAT	ATT	CCT	CGC	TGT	CAT	CAG	TAC	GAT	GAA	CTG	TTA	TCA	1560
S	P	E	G	H	A	K	F	R	R	V	L	K	A	W	V	V	S	H	P	540
TCA	CCA	GAA	GGT	CAT	GCA	AAA	TTT	AGG	CGT	GTA	TTA	AAA	GCC	TGG	GTA	GTG	TCT	CAT	CCT	1620
D	L	V	Y	W	Q	G	L	D	S	L	C	A	P	F	L	Y	L	N	F	560
GAT	CTT	GTG	TAT	TGG	CAA	GGT	CTT	GAC	TCA	CTT	TGT	GCT	CCA	TTC	CTA	TAT	CTA	AAC	TTC	1680
N	N	E	A	L	A	Y	A	C	M	S	A	F	I	P	K	Y	L	Y	N	580
AAT	AAT	GAA	GCC	TTG	GCT	TAT	GCA	TGT	ATG	TCT	GCT	TTT	ATT	CCC	AAA	TAC	CTG	TAT	AAC	1740
F	F	L	K	D	N	S	H	V	I	Q	E	Y	L	T	V	F	S	Q	M	600
TTC	TTC	TTA	AAA	GAC	AAC	TCA	CAT	GTA	ATA	CAA	GAG	TAT	CTG	ACT	GTC	TTC	TCT	CAG	ATG	1800
I	A	F	H	D	P	F	L	S	N	H	L	N	E	I	G	F	-	P	D	620
ATT	GCA	TTT	CAT	GAT	CCA	GAG	CTG	AGT	AAT	CAT	CTC	AAT	GAG	ATT	GGT	TTC	ATT	CCA	GAT	1860
L	Y	A	I	P	W	F	L	T	M	F	T	H	V	F	P	L	H	K	I	640
CTC	TAT	GCC	ATC	CCT	TGG	TTT	CTT	ACC	ATG	TTT	ACT	CAT	GTA	TTT	CCA	CTA	CAC	AAA	ATT	1920

Fig. 13B

002220 05291660

F	H	L	W	D	T	L	L	L	G	N	S	S	F	P	F	C	I	G	V	660	
TTC	CAC	CTC	TGG	GAT	ACC	TTA	CTA	CTT	GGG	AAT	TCC	TCT	TTC	CCA	TTC	TGT	ATT	GGA	GTA	1980	
A	I	L	Q	Q	L	R	D	R	L	L	A	N	G	F	N	E	C	I	L	680	
GCA	ATT	CTT	CAG	CAG	CTG	CGG	GAC	CGG	CTT	TTG	GCT	AAT	GGC	TTT	AAT	GAG	TGT	ATT	CTT	2040	
L	F	S	D	L	P	E	I	D	I	E	R	C	V	R	E	S	I	N	L	700	
CTC	TTC	TCC	GAT	TTA	CCA	GAA	ATT	GAC	ATT	GAA	CGC	TGT	GTG	AGA	GAA	TCT	ATC	AAC	CTG	2100	
F	C	W	T	P	K	S	A	T	Y	R	Q	H	A	Q	P	P	K	P	S	720	
TTT	TGT	TGG	ACT	CCT	AAA	AGT	GCT	ACT	TAC	AGA	CAG	CAT	GCT	CAA	CCT	CCA	AAG	CCA	TCT	2160	
S	D	S	S	G	G	R	S	S	A	P	Y	F	S	A	E	C	P	D	P	740	
TCT	GAC	AGC	AGT	GGA	GGC	AGA	AGT	TCG	GCA	CCT	TAT	TTC	TCT	GCT	GAG	TGT	CCA	GAT	CCT	2220	
P	K	T	D	L	S	R	E	S	I	P	L	N	D	L	K	S	E	V	S	760	
CCA	AAG	ACA	GAT	CTG	TCA	AGA	GAA	TCC	ATC	CCA	TTA	AAT	GAC	CTG	AAG	TCA	GAA	GTA	TCA	2280	
P	R	I	S	A	E	D	L	I	D	L	C	E	L	T	V	T	G	H	F	780	
CCA	CGG	ATT	TCA	GCA	GAG	GAC	CTG	ATT	GAC	TTG	TGT	GAG	CTC	ACA	GTG	ACA	GGC	CAC	TTC	2340	
K	T	P	S	K	K	T	K	S	S	K	P	K	L	L	V	V	D	I	R	800	
AAA	ACA	CCC	AGC	AAG	AAA	ACA	AAG	TCC	AGT	AAA	CCA	AAG	CTC	CTG	GTG	GTT	GAC	ATC	CGG	2400	
N	S	E	D	F	I	R	G	H	I	S	G	S	I	N	I	P	F	J	A	820	
AAT	AGT	GAA	GAC	TTT	ATT	CGT	GGT	CAC	ATT	TCA	GGA	AGC	ATC	AAC	ATT	CCA	TTC	AGT	GCT	2460	
A	F	T	A	E	G	E	L	T	Q	G	P	Y	T	A	M	L	Q	N	F	840	
GCC	TTC	ACT	GCA	GAA	GGG	GAG	CTT	ACC	CAG	GGC	CCT	TAC	ACT	GCT	ATG	CTC	CAG	AAC	TTC	2520	
K	G	K	V	I	V	I	V	G	H	V	A	K	H	T	A	E	F	A	A	860	
AAA	GGG	AAG	GTC	ATT	GTC	ATC	GTG	GGG	CAT	GTG	GCA	AAA	CAC	ACA	GCT	GAG	TTT	GCA	GCT	2580	
H	L	V	K	M	K	Y	P	R	I	C	I	L	D	G	G	I	N	K	I	880	
CAC	CTT	GTG	AAG	ATG	AAA	TAT	CCA	AGA	ATC	TGT	ATT	CTA	GAT	GGT	GGC	ATT	AAT	AAA	ATA	2640	
K	P	T	G	L	L	T	I	P	S	P	Q	I	*								894
AAG	CCA	ACA	GGC	CTC	CTC	ACC	ATC	CCA	TCT	CCT	CAA	ATA	TGA								2682

←SEQ ID NO:6↑

AGAACCAAGAGTGTGACTGCCAAAACCTAGTGTGGCATCAGCACCAACAGCACAGTTCTTCATATCCACGCCACTCTCA
 GACAAAACCTAGATGTCCAGATTGTTGCATTTCCGTAAAGTTTGTACAGAGACATTTTTTAAATCTCATAACCCACATG
 TTCAGTTATCCATGCAAGAACTTGACTCTACATGTATTGCTGAAAGAATTTTCTTAACAGTGAAATCTGATCATATAT
 TTTTACCACACTGCCACATAAAGCCCAAGAAATTCAGCTGACAAGACAGATTTAGCATTATCAAGAAATC ATTTGCC
 CTGAAAAAGCTGTCTCCATTGTACTGAACAGACAGTCCTGTGATTGTGTTATTTAGAAACATACACTGAATGTGGGC
 TGAAATCATCATCTTTCCATAATGAAAACCTGAGAACTATTCACAATGCATTTCCTTATAAATAAATGCTACATTTAGTA
 ACTCATTTACCCAAACAAGAAAGATGTGTGTGTGTGTGTATAGGAAGTGGAGTTTATCCCCATTGC AAACCT
 AATACTTACTCCCAGAAAAATGAAATTTAGAAACCATTTATATTTGATAGAATATTTGGTCAGTTCCTGTAGCAAAGAC
 GAATGGCTTAAACAAATTTTCTAGTTTCTTTATCACATGAAAGTCTGTACAGTCAGTCCAGGGCTAGTCTACTGGTTTC

Fig. 13C

CTGATCATTAAAGAACTCATTACCTTCTCTCATTGCTTTACAAACCTCAATATGTGGCATCCATCTCATGGATGAAAATG
GCTCCTCAGCTTCTACCATCACATCTGCTATCTAGAAGGAAGAGAATGAGGGAAGGAGGGAGGGGATGAAGAGAAAAGA
AGGAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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10/22/20 06:57:50

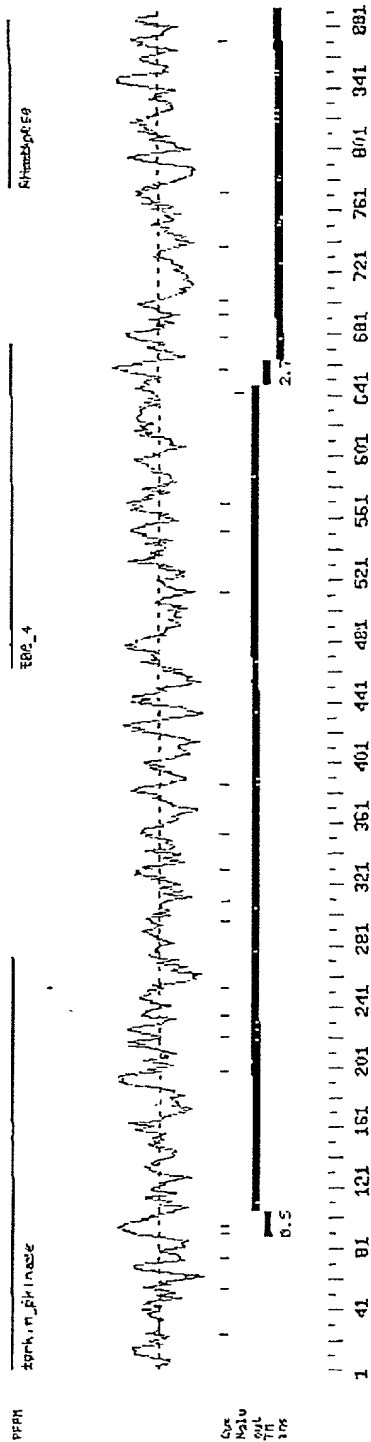


Fig. 14

```

*->qilkrlsHpNivrlIgvfedtdhlylvmEymegGdLfdylrrngpl SEQ ID NO:17
  qilk++ Hp ++++ ++ + ++l +v E++e +L d+lr+++p
18431 43 QILKTITHPRLCQYVDISRGKHERLVVVAEHCEr-SLEDLLRERKPV 88

  sekeakkialQilrGleYlHsngivHRDLKpeNIlldengtvKiaDFGLA
  s +++ia ++l+Gl+Y+ +givHR L p NIlld++g++K+a FGL
18431 89 SCSTVLCIAFEVLQGLQYMNKHGIVHRALSPHNILLDRKGHIKLAKFGLY 138

  rll...eklttfvGTpwYmmAPEvi.....leg.rgysskvDv
  ++ G p Y APEvi ++ +++++ + + + + ++k+Dv
18431 139 HMTahgDDVDFPIGYPSYL-APEVIaqqifktt dhmpSKKpLPSGPKSDV 187

  WSlGviLyElItggplfpgadlpafTggdevdqliifvklpfsdelpkt
  WSlG+iL+El+ g++lf+++d ++ l +
18431 188 WSLGIILFELCVGRKLFQSLD-----ISERLKFLTL 219

  ridpleelfrikkr.rlpIpsncSeelkdLlkkcLnkDPskRpGsatake
  ++ ++ +++ l++ +++++e+++dLl+kCL++ PskRp t e
18431 220 DCVDDTLIVLAEHhGCLDI IKELPETVIDLLNKCLTFHPSKRP---TPDE 266

  ilnhpwf<-*
  +++++ f
18431 267 LMKDKVF 273

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Fig. 15

```

*->vrqgvpsSlRgkVWklllgagelnncIltdnfkgldlfglvpllla SEQ ID NO:18
  r +p +Rg W++llg +
18431 463 ARVDIPPLMRGLTWAALLGVEGAI----- 486

  dkdeYeellnknkektvqdqneKssvgirrlDyVEAVEKHPLSDDNDKTK
  Y++++ ++ +t
18431 487 -HAKYDAIDKDTPIPT----- 501

  GSlEksdekalklredldkIekDlsRTfpdeiffqtrlaeqqlkkdqdl
  + +Ie D+ R+ + +++
18431 502 -----DRQIEVDIPRCHQYDELL----- 519

  daydkDEfddeddkneppsikqLrrlLvaYswknpqehlgYvQGMnvils
  +p+++++ rr+L a ++ +p+ l Y QG + +
18431 520 -----SSPEGHAKFRRVLKAWVVSHPD--LVYWQGLDSLCA 553

  pLLlf.lkhgvdIdeideeqAFwclvkLmdnylpqkyflndls.glnedl
  p+L++++ +e A++c ++++ +yl + +fl+d s+ ++e l
18431 554 PFLYLnFN-----NEALAYACMSAFIPKYLYN-FFLKDNShVIQEYL 594

  rvLdslvkeslPeLyshlkkkenktgsgkKknllaldltllifafpwfLt
  v++ + + +PeL++hl+ + +++++a+pwfLt
18431 595 TVFSQMIAFHDPELS NHLNEI-----GFIPDLYAIPWFLT 629

  lFarelPleivlrIwDilftyYlgshflifvalAiLklklsklkh<-*
  F+ ++Pl +++++wD l++ +s+f++ +++AiL++l++ ll+
18431 630 MFTHVFPLHKIFHLWDTLLLG--NSSFPFCIGVAILQQLRDRLLAN 673

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Fig. 16

Query: 459 IWKEARVDIPPLMRGLTWAALLGVEGAIHAKYDAIDKDT-----PIPTDRQIEVDIPRC 512
 I +E +D+PP +RG W LL V + +Y +D P P DRQ+EVDIPRC
 Sbjct: 1 IQRETNIDVPPTLRGEVWGCLLRVPPSARTRYALLDHAVHHTAAKPTPHDRQLEVDIPRC 60 SEQ ID NO:19

Query: 513 HQYDELLSSPEGHAKFRRVLKAWVVS--PDLVYWGGLDSLCPFLYLNFNNEALAYACM 570
 HQY LL+SP G A+ RR+LKAW + + P+ VYWGGLDSLCPFL +N +EALA+A +
 Sbjct: 61 HQYHPLLNSPSGSAQLRRILKAWQIVYLRPEHVYWGGLDSLCPFLTVNNRDEALAFQQL 120

Query: 571 SAFIPKYLYNFFLKDNHSHVIEYLTVFSQMIAFHDPELSNNHLNEIGFIPD 620
 +AF+ +Y++ F+LKDNS VI+EYL F + A+HDP L HL GF P+
 Sbjct: 121 NAFVNRYIHWFYLDKNSEVIKEYLGKPYHLTAYHDPLLYQHLKINGFDPE 170

Fig. 17

Query: 27 NGLPLTPNSIKILGRFQILKTITHPRLCQYVDISRGKHER--LVVVAEHCCERSLEDLLRE 84
 NGLPLTP + ++LGRF L+ + H LCQY+ RGKHER +VV EH +LED +
 Sbjct: 1 NGLPLTPPAKQMLGRFPYLQELQHDHLCQYLHFIRGKHERDLTIVVMEHYGMNLEDYAKR 60 SEQ ID NO:20

Query: 85 RKPVSCSTVLCIAFEVLQGLQYMNKHGIVHRALSPHNILL----DRKGHIKLAKFGLYHM 140
 P + +++ G+ Y+++H IVH L P++I + +RK +KL +GL+HM
 Sbjct: 61 HPPKDEAQNNNFYYQIACGINYLHRHHIVHNLHPNHIYITDDGNRKLKSVKLFNYGLHMH 120

Query: 141 TAHGDDVDFFPIGYPYLAPEVIAQGIFKTTDHMXXXXXXXXXXXXDVWSLGIILFELCVG 200
 T +G FPIG Y+APE I D++ DVW LG I+ ++ +G
 Sbjct: 121 TNYGKYTPFPPIGNRYMAPE----RILNDNDNLFAATYQS-----DVWELGFIMLQIYLG 171

Query: 201 RKL 203
 +L
 Sbjct: 172 IEL 174

Fig. 18

Query: 322 IEEVYYLWCLAGGDLEKELVNKEIIRSKPPICTLPNFLFEDGESFGQGRXXXXXXXXXXXX 381
 + ++Y+LW LAGGD++ EL + +IRS+ PI LP + G S GR
 Sbjct: 100 LSQIYHLWQLAGGDVQAECLKKEGLIRSEAPILGLPQIVRLSGASVCPGRSQAQLMDDRVV 159 SEQ ID NO:21

Query: 382 XXXXCQLNRNLKDVGGGEAFYPLEDDQSNLPHSNNELSAATLPLIIREKDTEYQLNR 441
 L RL + ++PLL + P ++ EL LPL+IREKD EYQ R
 Sbjct: 160 PLRLKALLQRLSGLPAAVYFPLLHSPR--FP-AHFARELQE---LPLVIREKDIEYQFQR 213

Query: 442 IILFDRLLKAYPYKKNQ 458
 + LF RLL+ YP+ Q
 Sbjct: 214 VRLFARLLQGYPTAEQ 230

Fig. 19

Query: 207 LDISERLKFLTLDCVDDTLIVLAEHGCGLDIIKELPETVIDLLNKCLTFHPSKRPTPE 266
 L +S ++ +L + L +A EH C + ++ + + LL CL+ P +RP P E
 Sbjct: 4 LKLSNVVRKILAFGKSNGALEKIAREQCHERYVQMDQRLRQLLESCLSVLPKRRPLPGE 63 SEQ ID NO:22

Query: 267 LMKDKVFSEV 276
 L++ +F EV
 Sbjct: 64 LLEHPIFEEV 73

Fig. 20

09916705291660

Query: 636 PLHKIFHLW 644
 PL +I+HLW
 Sbjct: 99 PLSQIYHLW 107 SEQ ID NO:23

Fig. 21

Query: 621 LYAIPWFLTMFTHVFLHKIFHLWDTLLGNSSFPFCIGVAILQQLRDRLL-ANGFNECI 679
 LYA WFLT+F PL + +WD S F + +A+L+ ++ LL A+ F E +
 Sbjct: 1 LYAFQWFLTLFARELPLETVLRIWDCCFFYEGSKILFRVALALLKMHKEELLQADDFEEML 60 SEQ ID NO:24

Query: 680 -LLFSDLP-----EIDIERCVRESINL 700
 L + LP E D R + E+ N+
 Sbjct: 61 EFLQNMLPKRYRSEEDARRLLLEEACNI 87

Fig. 22

Query: 72 EHCERSLEDLLRERKPVSCSTV---LCIAFEVLQGLQYM---NKHGIVHRALSPHNILL 124
 E E+ + + E+K S V + IA+++ +GL+Y+ NK I+HR L P NILL
 Sbjct: 136 EMMEKLQKQSMSEKKMEEMSWVSQLMKIAYQIAKGLEYLHKSNNKQNIHRDLKPENILL 195 SEQ ID NO:25

Query: 125 DR----KGH-----IKLAKFGLYHM 140
 D KG +K+A FGL M
 Sbjct: 196 DNNMVAKGDSEIKVVKIADFGGLARM 220

Fig. 23

Query: 152 GYPSYLAPEVIAQGIKTTHDMXXXXXXXXXXXXXDVWSLGIILFELCVGRKLF--QSLDI 209
 G PSY+ + + + + DVWS G+IL+EL G+ F S ++
 Sbjct: 245 GTPSYV--KYVGTRWYMAPEVLMGSSYGQYSEKSDVWSFGVILYELLTGKPPFFPGSSEV 302 SEQ ID NO:26

Query: 210 SE-RLKFLLTLDVDDTLIVLAEHGCGLDIIKE---LP---ETVIDLLNKCLTFHPSKR 261
 ++ ++ ++ V + + + KE P E V DL+ KC P KR
 Sbjct: 303 NDSQMNEIMKETMVKSAEYEMPMKMPPESSKESMSCPSMSSEAVKDLIKKCWQKDPEKR 362

Query: 262 PTPDELMKDKVFSEV 276
 PT +++++ E+
 Sbjct: 363 PTFAQVVEELSAHEI 377

Fig. 24

Query: 740 PPKT-DLSRESIPLNDLKSEVSPRISAEDLIDLCELTVTGHFXXXXXXXXXXXXXLLVVD 798
 PP+ D+ + L L+ E PRISA+D+ L + L ++D
 Sbjct: 29 PPQALDIGVADVELKHLQQEQCPRISAKDVQFLD-----NSPAELALID 73 SEQ ID NO:27

Query: 799 IRNSED FIRGHISGSINIPFSAFTAEGELTQGPYTAMLQNFKGVIVIVGHVAKHTAEF 858
 +R+ +F R H+ SINIPF+ E L + +GK++V V ++ +H+ E
 Sbjct: 74 LRSVVEFGVRVHVPHSINIPFATVQLGEQRLEALQVPQLEAQLRGKIVVCVSNIHQHSVEV 133

Query: 859 AAHLVKMK 866
 L ++K
 Sbjct: 134 GHPLAQLK 141

Fig. 25

002220 06291560

Query: 693 CVRESINLFCWTPKSATYRQHA---QPPKXXXXXXXXXXAPYFSAECPDPPKTDL---- 745
 CV ES ++ TPKS T+RQHA QPP+ +CP D+
 Sbjct: 3 CVLESQKMYEATPKSITHRQHALRLQPPQALDIGVADVELKHLQQEQCPRISAKDVQFLL 62 SEQ ID NO:28

Query: 746 --SRESIPLNDLKSEVS-PRISAEDLIDLCELTV 776
 S + L DL+S V R+ I++ TV
 Sbjct: 63 DNSPAELALIDLRSVVEFGRVHVPHSINIPFATV 96

Fig. 26

Query: 856 AEFAAHLVKMKYPRICILDGGIN---KIKPTGLLT 887
 ++F+ LV R CIL G N I+P L++
 Sbjct: 152 SQFSHFLVACGVQRTCILHKGFNVLHSIEPNILIS 186 SEQ ID NO:29

Fig. 27

Query: 506 EVDIPRCHQYDELLSSPEGHAKFRRVLKAWVVSHPD--LVYWQGLDSLCAFLYLNFNNE 563
 + DI C +Y+ P + + + L+ + V +P ++ + G APF YL
 Sbjct: 336 DTDIGGCFEYNTF-PPPGKYRGLGLEEYAVFYPPNGVIPFHGFCMYAAPFCYLYHEPS 394 SEQ ID NO:30

Query: 564 ALAYACMSAFIPKYLYNFFLKDNSHV--IQEYLTVFSQMIAFHDPELS NHLNEIGFIPDL 621
 L Y +I +Y + N+H I +F +++ ++P+L H EIG P
 Sbjct: 395 KLYYTFREFYI-RYCHRLHTI-NTHPQGIVSLCLLFEKLLQTYEPQLWYHFREIGAQPLR 452

Query: 622 YAIPWFLTMFTHVFPLHKIFHLWDTL L L GNS 652
 + W + F+ P ++ LWD +L NS
 Sbjct: 453 ISFKWMMRAFSGHLPPDQL L L L WDRILGYNS 483

Fig. 28

Query: 77 SLEDLLRERKPVSCSTVLC--IAFEVLQGLQYMNKHGIVHRALSPHNILLDRKGHIKLAK 134
 S LLR P S L I F ++GL Y++++G +HR++ +IL+ G + L+
 Sbjct: 5 SASQLLRITYFPEGMSETLIRNIFGAVRGLNYLHQNGCIHRSIKASHILISGDLVTLTG 64 SEQ ID NO:31

Query: 135 FG-LYHMTAHGDD----VDFP---IGYPSYLAPEVIAQGIFKTTDHMXXXXXXXXXXXXXD 186
 L+ + HG DFP +L+PE++ Q + H D
 Sbjct: 65 LSHLHSLVKHGQRHRAVYDFPQFSTSVQPWLSPELLRQDL-----H-----GYNVKSD 112

Query: 187 VWSLGIILFELCVGRKLFQSLDISERL 213
 ++S+GI EL G+ FQ + ++ L
 Sbjct: 113 IYSVGITACELASQVPPFQDMHRTQML 139

Fig. 29

Query: 240 KELPETVIDLLNKCLTFHPSKRPTPDELMKDKVFSEV 276
 K L+ CL P KRP+ L+ F ++
 Sbjct: 198 KTFSPAFFSLVQLCLQQDPEKRPSSASSLLSHVFFKQM 234 SEQ ID NO:32

Fig. 30

00916750 0729560

SECRET

Fig. 32

```

Query:      112 IVHRALSPHNILLDRKGHIKLAFLGYHMTAHGDDVD--FPIGYP--SYLAPEVIAQGIF 167
           ++HR + P +IL+ ++G KLA F          + +D + FP Y          + P + +
Sbjct:      1  VIHRNICPESILITKRGSWKLAGFDFCVSAQNPNQENYFPCHYEWDPRIPPLPLQPNLD 60  SEQ ID NO:35

Query:      168 KTTDHMXXXXXXXXXXXXDVWSLGIILFELCVGRKLFQSLDISERLKFFLLTLDCVDDTLI 227
           D++SLG +++ + G K          +D + ++          + +TL
Sbjct:      61 YLAPEYVTSSTCTVGSASDMFSLGCLIIYAIYNGGKPL--IDANNDEYKSNYKNYMNLTN 118

Query:      228 VLAEEHGCLDIIKELPETVIDLLNKCLTFHPSKRPTPDELMKDKVF 273
           L H ++ + PE ++ + L + L+ P+ RPT EL K F
Sbjct:      119 SLT--HESMNNLP--PENLKESLKRMLSMDPTVRPTAQELTLIKYF 160

```

Fig. 34

Query: 744 DLSRESIPLNDLKSEVSPRI--SAEDL-IDLCE 773
DL + P D+KS + P + + ED I +C+
Sbjct: 273 DLLLQKTPPEDIKSNILPMLYYAFEDSDIQC 305 SEQ ID NO:36